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Atty. Dkt. No. 070639-0138

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Yutaka YOKOYAMA

Title: MOVING IMAGE CODING DEVICE, MOVING IMAGE CODING METHOD AND PROGRAM THEREOF EMPLOYING PRE-ANALYSIS

Appl. No.: 10/058,298

Filing Date: 01/30/2002

Examiner: Lee, Richard J.

Art Unit: 2613

AMENDMENT AND REPLY UNDER 37 CFR 1.111

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

This communication is responsive to the Non-Final Office Action dated October 20, 2004, concerning the above-referenced patent application.

Amendments to the Claims are reflected in the listing of claims which begins on page 3 of this document.

Amendments to the Drawings begin on page 15 of this document, and include an attached replacement drawing sheet and an annotated sheet showing changes.

Remarks/Arguments begin on page 15 of this document.

Please amend the application as follows:

In the Abstract, please amend as follows:

A method of making ~~a~~ coding ~~for~~ images with a two-pass encode or a pre-analysis, wherein the control ~~is taken so that code~~ quantity is suitably given to a buffer ~~for coding~~. An image coding device ~~that~~ makes ~~a compression~~ compresses and ~~coding~~ codes ~~for~~ moving images, ~~comprising means for:~~ and has a pre-analyzing ~~images~~unit, which exist in a constant interval, ~~prior to~~ for making a coding for the images that were input to observe characteristics of each image~~;~~. ~~based~~ Based on ~~said~~ the observed characteristics, a unit ~~estimating~~ estimates the complexity degrees of the images~~;~~ and based on ~~said~~ the estimated complexity degrees, ~~allocating~~ allocates a code quantity to the images in a constant interval~~, of which the head is the image that was not coded yet,~~ to compute a target code quantity of each image ~~for all images in the above interval;~~. The device ~~calculating~~ calculates a transition of occupancy in a buffer ~~for coding within said interval of said code~~ in assigning ~~said~~ the computed target code quantity to each of said images to regulate the target code quantity so that the buffer ~~for coding~~ does not give rise to an overflow or an underflow~~; and making a compression and coding for the images, which were not coded yet, according to said regulated target code quantity~~.